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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-15-06** **Date: 18-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-06/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg, Min)	294.5	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	245 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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DR KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-15-06** **Date: 13-06-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-06/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-05-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-15-06** **Date: 19-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-06/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	176	176	3.52	96.48	90-100
3	10 mm	2166	2342	46.84	53.16	25-55
4	4.75 mm	2544	4886	97.72	2.28	0-10
5	Pan	114	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-15-06** **Date: 19-05-2017**

Sample ID No : 2017-05-15-06/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.9	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.24	_
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-15-06** **Date: 19-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-05-17
Sample ID No	:	2017-05-15-06/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	544	544	3.6	96.4	90-100
3	20 mm	6765	7309	48.7	51.3	30-70
4	10 mm	5398	12707	84.7	15.3	10-35
5	4.75 mm	2090	14797	98.6	1.4	0-5
6	Pan	203	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-15-06** **Date: 19-05-2017**

Sample ID No : 2017-05-15-06/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.19	_

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-15-06** **Date: 19-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/25/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-05-17

Sample ID No : 2017-05-15-06/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 15-05-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	9	9	0.9	99.1	90-100	90-100	90-100	95-100
3	2.36 mm	48	57	5.7	94.3	60-95	75-100	85-100	95-100
4	1.18 mm	67	124	12.4	87.6	30-70	55-90	75-100	90-100
5	600 micron	287	411	41.1	58.9	15-34	35-59	60-79	80-100
6	300 micron	298	709	70.9	29.1	5-20	8-30	12-40	15-50
7	150 micron	205	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-15-06** **Date: 19-05-17**

Sample ID No : 2017-05-15-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.13	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	4.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-25-04 **Date: 30-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/25/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-05-17

Sample ID No : 2017-05-25-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	23/05/2017	30/05/2017	150.21 X 150.34 X 15-.11	22583	8.229	408.7	18.1	18.2
2	Drain Concrete	M20	23/05/2017	30/05/2017	150.54 X 150.98 X 150.13	22729	8.213	406.8	17.9	
3	Drain Concrete	M20	23/05/2017	30/05/2017	150.12 X 150.77 X 150.25	22634	8.132	418.7	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-25-04** **Date: 20-06-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/25/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-05-17

Sample ID No : 2017-05-25-04/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	23/05/2017	20/06/2017	150.19 X 150.34 X 150.22	22580	8.187	526.1	23.3	23.5
2	Drain Concrete	M20	23/05/2017	20/06/2017	150.15 X 150.17 X 150.32	22548	8.233	527.6	23.4	
3	Drain Concrete	M20	23/05/2017	20/06/2017	150.39 X 150.87 X 150.22	22689	8.144	540.0	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-27-02** **Date: 31-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-05-17
Sample ID No	:	2017-05-27-01/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	24/05/2017	31/05/2017	150.19 X 150.11 X 150.16	22545	8.112	387.8	17.2	17.4
2	Drain Concrete	M20	24/05/2017	31/05/2017	150.29 X 150.22 X 150.27	22577	8.134	390.6	17.3	
3	Drain Concrete	M20	24/05/2017	31/05/2017	150.00 X 150.14 X 150.20	22521	8.211	398.6	17.7	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-27-02** **Date: 21-06-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.

Agency : Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.

Customer's Reference : EE/DD/WO/25/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-05-17

Sample ID No : 2017-05-27-01/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	24/05/2017	21/06/2017	150.11 X 150.33 X 150.21	22566	8.217	530.3	23.5	23.7
2	Drain Concrete	M20	24/05/2017	21/06/2017	150.12 X 149.98 X 149.75	22515	8.312	531.4	23.6	
3	Drain Concrete	M20	24/05/2017	21/06/2017	150.87 X 150.32 X 150.28	22679	8.176	546.6	24.1	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-18-01** **Date: 20-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & construction of CC roads Sharada high school road near coconut garden at T. Dasarahalli in Ward No. 15 Dasarahalli Sub Division.
Agency	:	Sri. N. Thippeswamy, #09, 1st Cross, Saraswathi Puram, Bangalore gate, Chithraduraga.
Customer's Reference	:	EE/DD/WO/25/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-01/01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	19-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe550	8	0.392	581	688	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe550	10	0.615	592	694	20.0%	Satisfactory	Satisfactory

Note:
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FOR CIVIL Pro.

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

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